

REPORT ON MACHINERY.

SAT. 26 MAR 1904

No. 46716.

Port of *Newcastle-on-Tyne*

Received at London Office

19

No. in Survey held at *Newcastle*
Reg. Book.Date, first Survey *Sept 21 '03*Last Survey *Nov 23 1904*(Number of Visits *24*)on the *S/S "Hieronymi"*Master *Mikroy*Built at *Newcastle*By whom built *Johnston & Co*

Tons

Gross *2288*Net *1444*When built *1904*Engines made at *Newcastle*By whom made *North Eastern Mar. Eng. Co*when made *1904*Boilers made at *Newcastle*By whom made *North Eastern Mar. Eng. Co*when made *1904*

Registered Horse Power

Owners *Hanquarian & Co*Port belonging to *Fiume*Nom. Horse Power as per Section 28 *2531*Is Refrigerating Machinery fitted *no*Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines

No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *22" 36" 60"*Length of Stroke *39"*Revs. per minute *75*

Dia. of Screw shaft

as per rule *12.95"*as fitted *13.5"*Material of *Iron*

screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube *no*

Is the after end of the liner made water tight

in the propeller boss *yes* If the liner is in more than one length are the joints burned *yes*

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *yes*

If two

liners are fitted, is the shaft lapped or protected between the liners *yes*Length of stern bush *4'-9"*

Dia. of Tunnel shaft

as per rule *10.82"*

Dia. of Crank shaft journals

as per rule *11.86"*Dia. of Crank pin *11.3"*Size of Crank webs *23 1/2 x 7 1/2*

Dia. of thrust shaft under

collars *11 3/4"*Dia. of screw *15-4"*Pitch of screw *16-6"*No. of blades *4*State whether moveable *no*Total surface *75 1/2*No. of Feed pumps *2*Diameter of ditto *3 1/4"*Stroke *18"*Can one be overhauled while the other is at work *yes*No. of Bilge pumps *2*Diameter of ditto *3 1/4"*Stroke *18"*Can one be overhauled while the other is at work *yes*No. of Donkey Engines *2*Sizes of Pumps *8 x 9 x 10, 6 x 4 x 6*

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room *Four 3"*In Holds, &c. *Two in each hold 3" 1/2 in*Tunnels *Two 2 1/2"*No. of bilge injections *1*sizes *4"*Connected to condenser, or to circulating pump *yes*Is a separate donkey suction fitted in Engine room & size *yes 3 1/2"*Are all the bilge suction pipes fitted with roses *yes*Are the roses in Engine room always accessible *yes*Are the sluices on Engine room bulkheads always accessible *no*Are all connections with the sea direct on the skin of the ship *yes*Are they Valves or Cocks *Both*Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *yes*Are the discharge pipes above or below the deep water line *above*Are they each fitted with a discharge valve always accessible on the plating of the vessel *yes*Are the blow off cocks fitted with a spigot and brass covering plate *yes*What pipes are carried through the bunkers *none*How are they protected *yes*Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times *yes*Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *yes*When were stern tube, propeller, screw shaft, and all connections examined in dry dock *Nov*Is the screw shaft tunnel watertight *yes*Is it fitted with a watertight door *yes*worked from *Upper Platform*

BOILERS, &c.—

(Letter for record *S*)Total Heating Surface of Boilers *40409*Is forced draft fitted *no*No. and Description of Boilers *Two single ended*Working Pressure *180 lbs*

Tested by hydraulic pressure to

Date of test *27/11/04*Can each boiler be worked separately *yes*Area of fire grate in each boiler *66 1/2*

No. and Description of safety valves to

each boiler *Two spring valves*Area of each valve *7.07"*Pressure to which they are adjusted *185 lbs*Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *24"*Mean dia. of boilers *14-5*Length *10-6*Material of shell plates *S*Thickness *1 1/2"*Range of tensile strength *29-32*Are they welded or flanged *no*Descrip. of riveting: cir. seams *Lap 1 1/2"*long. seams *A. H. K. riv.*Diameter of rivet holes in long. seams *19/32*Pitch of rivets *9 3/4*Lap of plates or width of butt straps *19 1/2*

Per centages of strength of longitudinal joint

rivets *87*plate *87*Working pressure of shell by rules *182*Size of manhole in shell *12 x 16"*Size of compensating ring *flange in*No. and Description of Furnaces in each boiler *3 Brighton*Material *S*Outside diameter *44 1/2*

Length of plain part

top *3 1/2"*bottom *3 1/2"*

Thickness of plates

crown *3 1/2"*bottom *3 1/2"*Description of longitudinal joint *welded*No. of strengthening rings *yes*Working pressure of furnace by the rules *184*Combustion chamber plates: Material *S*Thickness: Sides *1/2"*Back *1/2"*Top *1/2"*Bottom *1"*Pitch of stays to ditto: Sides *9 3/8 x 9 1/2*Back *9 3/8 x 9 1/2*Top *9 3/8 x 9 1/2*If stays are fitted with nuts or riveted heads *nuts*Working pressure by rules *183*Material of stays *S*Diameter at smallest part *1 1/2"*Area supported by each stay *88"*Working pressure by rules *180*

End plates in steam space:

Material *S*Thickness *1 1/2"*Pitch of stays *20 3/8 x 23*How are stays secured *A. H. K. riv.*Working pressure by rules *181*Material of stays *S*Diameter at smallest part *8-48"*Area supported by each stay *468"*Working pressure by rules *181*Material of Front plates at bottom *S*Thickness *1 1/2"*Material of Lower back plate *S*Thickness *2 1/2"*Greatest pitch of stays *14 1/2"*Working pressure of plate by rules *189*Diameter of tubes *3 1/4"*Pitch of tubes *4 3/8 x 4 1/2*Material of tube plates *S*Thickness: Front *1 1/2"*Back *3/4"*Mean pitch of stays *9"*Pitch across wide water spaces *14 1/2"*Working pressures by rules *180*Girders to Chamber tops: Material *S*

Depth and

thickness of girder at centre *8 1/2 x 1 1/2"*Length as per rule *30*Distance apart *9 3/8*Number and pitch of Stays in each *2, 9 1/2"*Working pressure by rules *186*Superheater or Steam chest; how connected to boiler *yes*

Can the superheater be shut off and the boiler worked

separately *yes*Diameter *yes*Length *yes*Thickness of shell plates *yes*Material *yes*Description of longitudinal joint *yes*

Diam. of rivet

holes *yes*Pitch of rivets *yes*Working pressure of shell by rules *yes*Diameter of flue *yes*Material of flue plates *yes*Thickness *yes*If stiffened with rings *yes*Distance between rings *yes*Working pressure by rules *yes*End plates: Thickness *yes*How stayed *yes*Working pressure of end plates *yes*Area of safety valves to superheater *yes*Are they fitted with easing gear *yes*

DONKEY BOILER— No. *one* Description *vertical Blake Patent*
 Made at *Manchester* By whom made *Richardson & Co. Ltd.* When made *14/1/14* Where fixed *Stokehold*
 Working pressure *90 lbs* tested by hydraulic pressure to *150 lbs* No. of Certificate *3/34* Fire grate area *24 9* Description of safety valves *Spring*
 No. of safety valves *2* Area of each *4.91* Pressure to which they are adjusted *90 lbs* If fitted with casing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler *7' 0"* Length *15' 3"* Material of shell plates *S* Thickness *1/2"* Range of tensile strength *27/32* Descrip. of riveting long. seams *Lap rivet* Dia. of rivet holes *15/16* Whether punched or drilled *drilled* Pitch of rivets *3"*
 Lap of plating *4 5/8* Per centage of strength of joint *78* Rivets *78* Thickness of shell crown plates *1/2"* Radius of do. *3-6"* No. of Stays to do. *—*
 Dia. of stays *1 1/2"* Diameter of furnace Top *3-6"* Bottom *5-8"* Length of furnace *4-4"* Thickness of furnace plates *5/8* Description of joint *Lap rivet* Thickness of furnace crown plates *1/2" + 1/32"* Stayed by *disks* Working pressure of shell by rules *94*
 Working pressure of furnace by rules *99* Diameter of uptake *2 1/2"* Thickness of uptake plates *7 3/32 13/16* Thickness of water tubes *3 5/8*

SPARE GEAR. State the articles supplied:— *Two top end & two bottom end conn. rods bolts & nuts*
two main bearing bolts, one set coupling bolts, one set fuel & bilge pump
valves, various bolts & nuts, some of various sizes.

The foregoing is a correct description,
 FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD. Manufacturer.

S. J. Harrison ASSISTANT SECRETARY.
 Dates of Survey while building { During progress of work in shops - { 1903 Sep. 21 Oct. 12 22
 { During erection on board vessel - { 10.11.23
 Total No. of { 24
 Is the approved plan of main boiler forwarded herewith *yes*
 " " " donkey " " " *no*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been built under special survey. The materials & workmanship are sound and good and under the vessel eligible in my opinion to have record of + L.M.C. 3.04.

It is submitted that
 this vessel is eligible for
 THE RECORD. *L.M.C. 3.04*

Emil
26.3.04
26.3.04

The amount of Entry Fee. £ *2* : : : When applied for, *25 MAR 1904*
 Special .. £ *32* : *13* : : :
 Donkey Boiler Fee .. £ : : : : When received, *26 MAR 1904*
 Travelling Expenses (if any) £ : : : : *26.3.04*

Committee's Minute

TUES. 29 MAR 1904

Assigned

MACHINERY CERTIFICATE
 WRITTEN 29.3.04



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Lloyd's Register
 Foundation

Newcastle-on-Tyne.

Certificate (if required) to be sent to